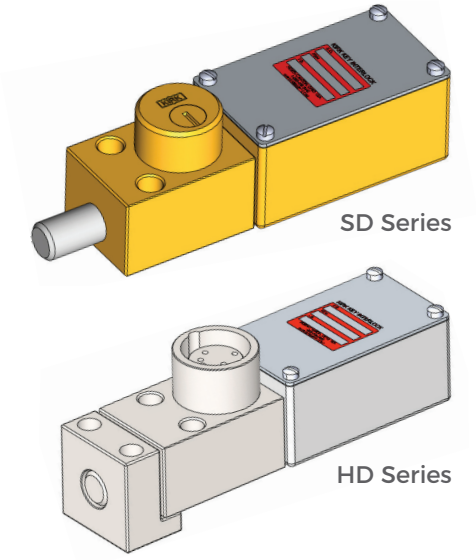
TYPE S Auxiliary Switch

Part of the Sentric Group



The KIRK S auxiliary switch is a slow-make, slow-break device. The toggle switch responds to the movement of the lock bolt as it travels ¾". The Type S can have one (1), two (2), three (3), or four (4) contacts. The Type S can be used in systems to indicate lock status to SCADA or other monitoring systems.

The Type S auxiliary switch can be mounted on the following interlocks for both SD and HD series: Type F, Type B, Type T, Type D

USAGE

KIRK Type S auxiliary switch should be used on equipment directly engaging with control circuitry. KIRK switch interlocks ensure that once the equipment power is isolated by the switch interlock as defined by the end user's safety process and following the operations of the interlock, the control circuitry cannot be re-energized until the full sequential procedure is reversed.

No hazardous substances were used in the manufacturing of the product. The product can be disposed of in standard waste receptacles.

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INSTALLATION

The KIRK Type S auxiliary switch is mounted directly to the specified KIRK interlock as ordered. Proper installation of KIRK interlocks is a critical element of a key interlock system. After installation of the interlocks, the complete interlock system should be tested sequentially by person(s) familiar with the entire system, the key sequence, and its intended purpose. Any problems or discrepancies must be corrected prior to energization.

SD series (brass) interlocks are supplied with a key in each cylinder. These keys are needed during installation of the interlocks.

HD series (stainless steel) interlocks are not sold with keys. Keys must be ordered separately and may be required during the installation process.

Auxiliary switches cannot be field installed on existing KIRK interlocks

For all interlock systems to maintain system integrity, additional keys must be removed from the system and destroyed or retained by a responsible person. There should only be enough keys to operate the interlock system sequentially. Kirk Key Interlock Company will not be responsible for extra keys left in the interlock system.

All interlocks and interlock systems must be installed by a competent and qualified person who has read and understood these instructions. Please retain this document in your technical files.

MAINTENANCE

There is no additional maintenance to the Type S auxiliary switch.

Kirk key interlocks should be periodically lubricated with a small amount of dry powder graphite. DO NOT use oil or grease of any type as these will collect dirt and impede the proper operation of the lock cylinder.

SD SERIES: Apply a small amount of graphite to the key and insert the key into the lock cylinder. Work the key in an out and turn the key several times in order to distribute the graphite inside the lock cylinder.

HD SERIES: Apply a small amount of graphite behind the inner turn shaft. Insert and turn the key a few times in order to distribute the graphite below the lock cylinder.

KIRK offers a Graphite Lubrication kit (part# GL-1) complete with instructions for use.

Protective covers for most products are also available as accessories. Covers can be utilized to protect the lock cylinders when located outdoors or in a demanding environment.

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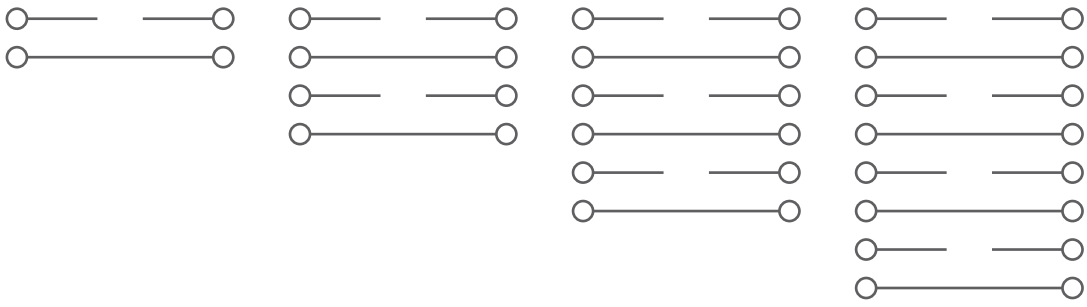
TECHNICAL DATA

S Switch Maximum Contact Ratings			
AC Ratings			
Voltage	**Make**	**Break**	**Continuous**
120 VAC	15A	10A	50A
240 VAC	12A	9A	50A
480 VAC	8A	5A	50A
DC Ratings			
Voltage	**Make**	**Break**	**Continuous**
48 VDC	3.2A	3.2A	50A
125 VDC	2.5A	2.5A	50A
250 VDC	1.0A	1.0A	50A

Withstand voltage is 2500 volts (line to ground). Since the contact movement is directly controlled by rotation of the key, the contact life (at high currents) will be dependent upon how quickly and completely the contacts are cleared or closed.

	Type S Auxiliary Switch Configurations			
	Type S	Type SS	Type SSS	Type SSSS
Housing	Bronze	Aluminum	Aluminum	Aluminum
Type of Mounting	Mounted directly to specified KIRK interlock			
Conduit Opening	3/4"	1"	1"	1"
Length of Switch Housing	3 1/2"	5 3/4"	8 1/4"	9 5/8"
Number of Circuits	2	4	6	8
Ingress Protection	Not applicable - is not compliant with IP65 acc. to EN 60529			
Make Contacts	1	2	3	4
Break Contacts	1	2	3	4
Weight	1.5 lbs	1.5 lbs	1.7 lbs	2.0 lbs

* Weight of S switch unit based on switch alone; not mounted to specified KIRK interlock



TYPE S Auxiliary Switch

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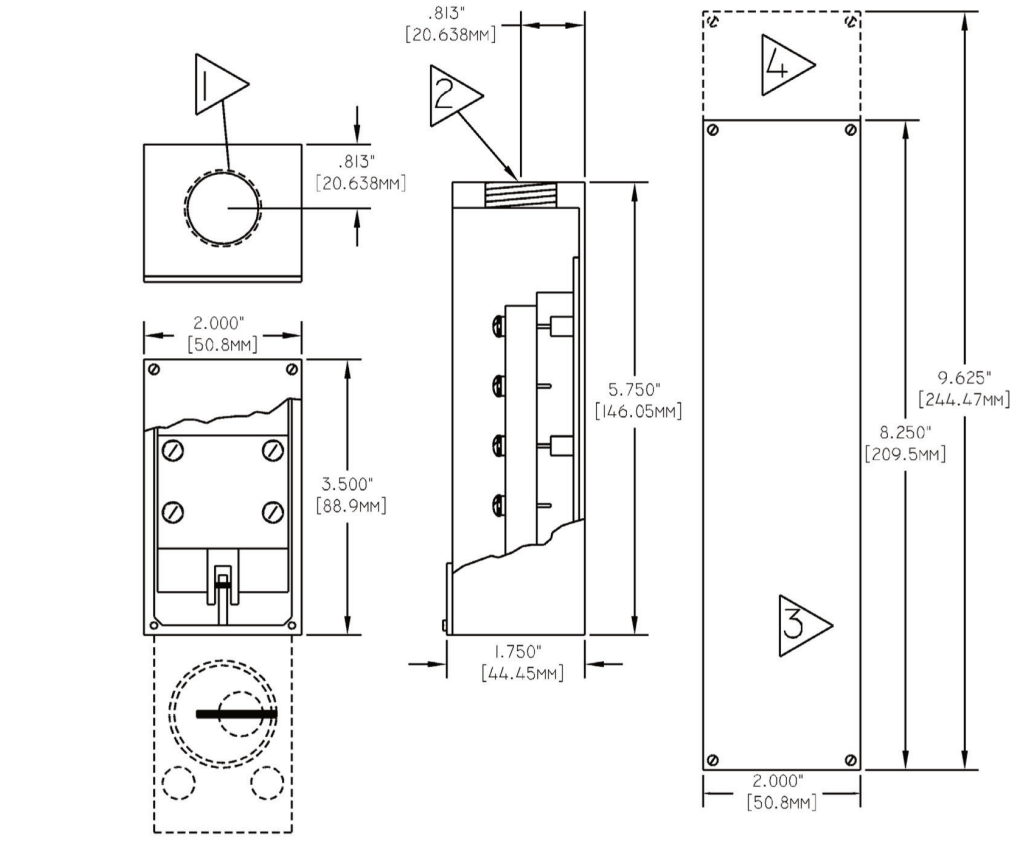
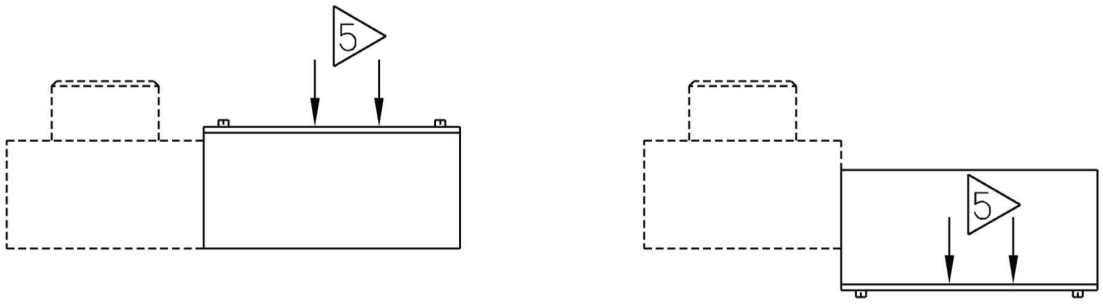
DRAWING

Dimensions: in inches

Type S Auxiliary Switch





NOTES:

1) 3/4" Conduit opening on S Switch.
2) 1" Conduit opening on SS, SSS & SSSS Switch.
3) SSS Switch front view – 3 make & 3 break contacts.
4) SSSS Switch front view – 4 make & 4 break contacts.
5) Cover. Left drawing shows normal Type S switch mounting. Right drawing shows reverse Type S switch mounting.

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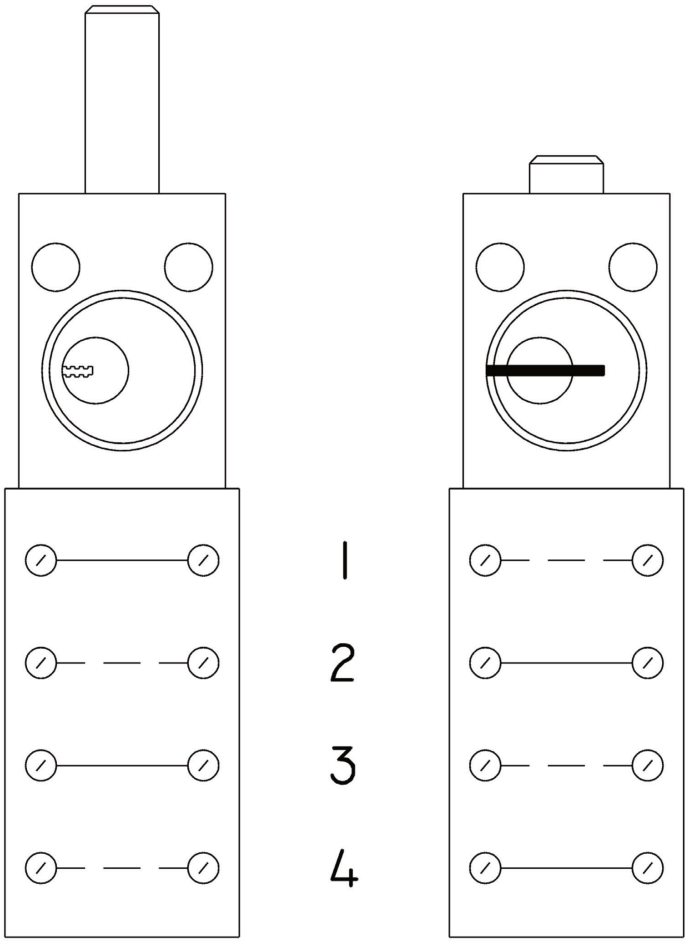

NOTES:

The drawing on the left shows a Type F interlock with a Type SS switch. The locking bolt is in the ex-tended position with the key removed. The sets of contacts in position 1 (closest to the lock cylinder) and position 3 are closed. The sets of contacts in positions 2 and 4 are open. The drawing on the right shows a Type F interlock with a Type SS switch. The locking bolt is in the withdrawn position and the key is trapped. The sets of contacts in positions 2 and 4 are now closed, while the sets of contacts in positions 1 and 3 are now open.

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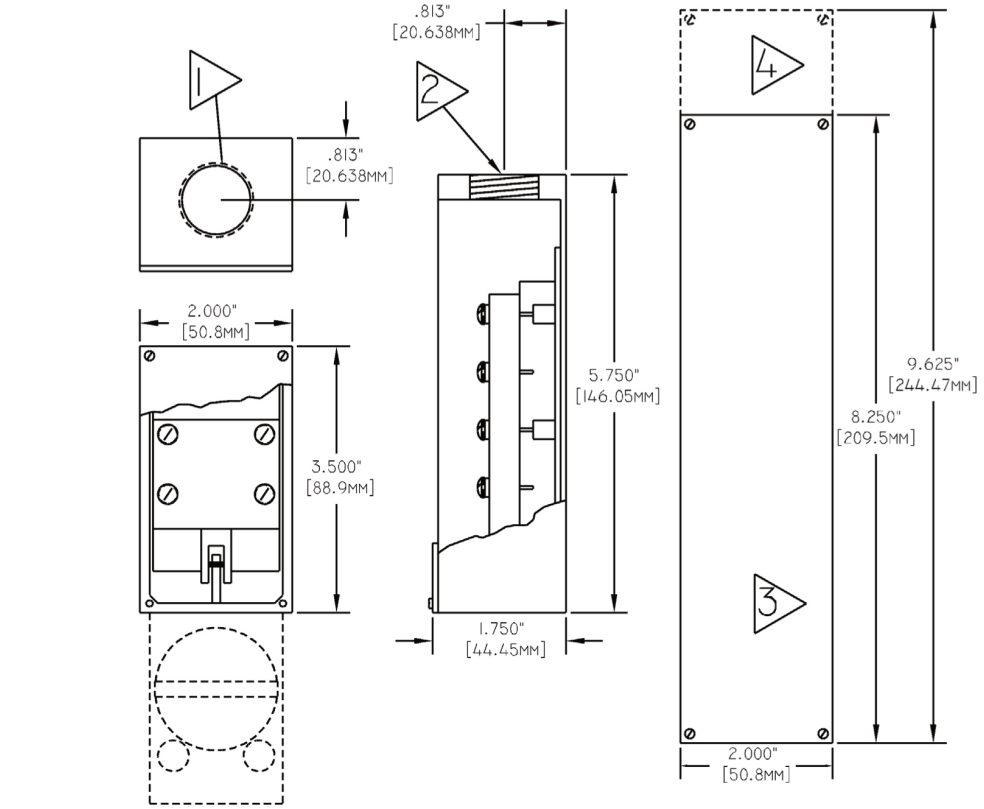

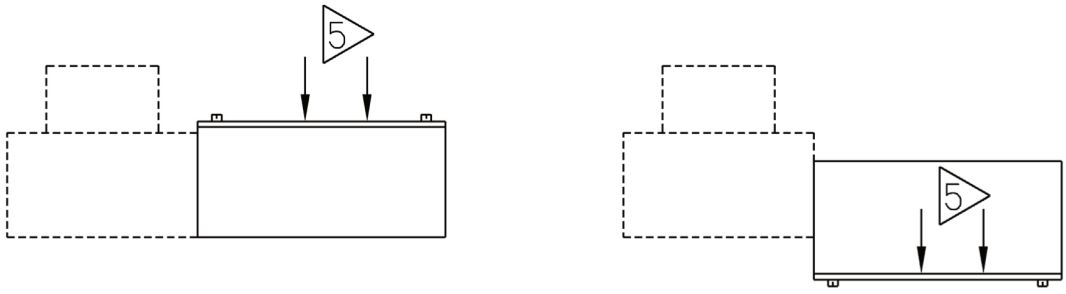

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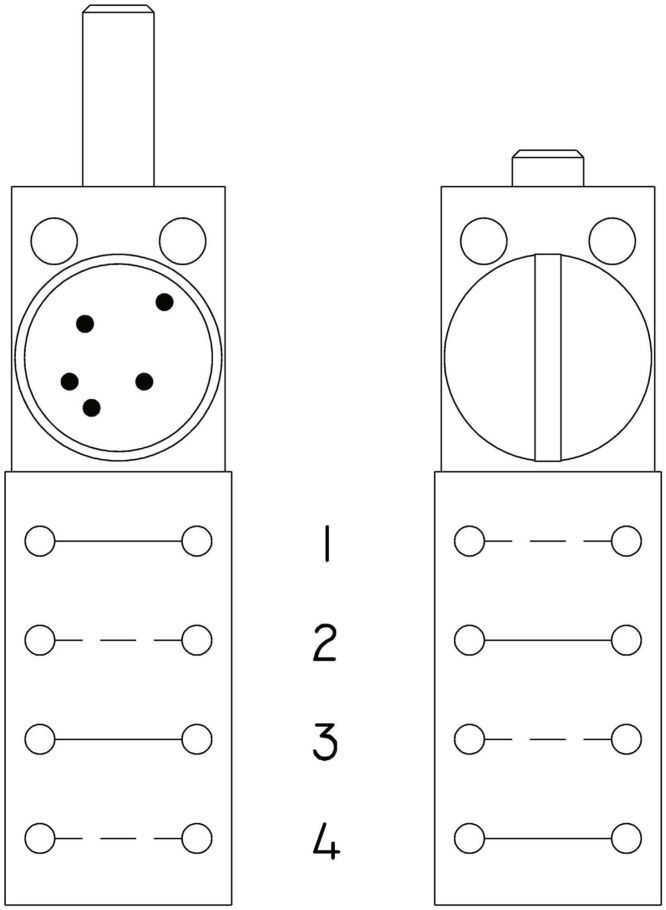

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ORDER INFORMATION

See ordering guide for specific KIRK interlock to order auxiliary switch options.

CONTACT INFORMATION

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